



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41005

Entry Year 2023

Acreage: 1,672

County Schoolcraft

Management Area: Fox River Complex

Stand Examiner: Scott Kentner

Legal Description:

T45N R13W Sections 21 - 24

Identified Planning Goals:

To maintain a healthy; sustainable forest with special consideration to wildlife habitat, fisheries habitat, and recreational needs.

Soil and topography:

Newton sand and Wallace sand in the marsh/ridge areas. Blue Lake fine sand in the NE corner of Section 24. Terrain is generally flat to slightly rolling.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

There are four different private properties within the compartment. Their use is recreational/camp in nature. There is little development in the compartment. The Seney National Wildlife Refuge is adjacent to the west and Luce County is to the east

Unique Natural Features:

The compartment is divided several times by the Fox River which is listed as a Natural and Scenic River; Holland Creek and the Holland Ditch, which was dug to drain land to the north.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

The Fox River runs through the compartment and has a natural river designation.

Watershed and Fisheries Considerations:

This compartment contains Clarks Ditch, Holland Creek, and the Fox River. Clarks Ditch and Holland Creek are non-designated streams less than 50' width with predicted mean July temperatures of 65.5 and 60.3 °F, respectively (cold streams). 100' plus 5' per 1% increase in slope; buffers are recommended for Clarks Ditch and Holland Creek to protect these areas in accordance with Best Management Practices.

The Fox River is designated a Natural River, is less than 50' width, and has a predicted mean July temperature of 65.7 °F (cold stream). 200' plus 5' per 1% increase in slope; buffers are recommended to protect the Fox River in accordance with Best Management Practices and Fox River Natural Rivers Management Plan.

Wildlife Habitat Considerations:

This compartment lies within the Seney Sand Lake Plain ecological sub-subsection. The growing season in this area is less than 100 days with extreme minimum winter temperatures of -46 F. Annual snowfall in this area averages between 120 and 140 inches. General Land Office (GLO) Surveyor notes show the hardwoods within the northeast corner of this compartment contained sugar maple, beech, hemlock, elm, and basswood. The lowland forests contained cedar, white birch, hemlock, and black spruce. The upland knobs within these areas likely contained hemlock, white pine, white birch, and red pine. Windthrow, fire and beaver ponds along the Fox River were likely the major source of natural disturbance. Red pine and jack pine are the current dominant species on the knobs within the swamp complex. However, the remainder of the compartment is likely similar in species composition to the pre-settlement forests. The Holland ditch is a man-made water course on the western side of the compartment which likely has lowered the water table facilitating the jack pine in that area. Wildlife habitat objectives include maintaining diversity within the hardwood stands, protecting the Fox River corridor, and maintaining age and structural diversity between conifer stands. Portions of this compartment fall within a historic deer wintering complex, as such maintaining any mast producing species is important as well as ensuring that a conifer component is present post harvest for browse and thermal refugia. Although wolves and moose are assumed to utilize this area, there are no known occurrences of endangered, threatened, or special concern species within

the compartment. Wood turtle might also be found associated with the Fox River and Holland Ditch. Other species of interest include great blue heron, black-backed woodpecker, water shrew, and mink.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel and peat and muck. Much of the State land appears to be wetlands. There is up to 70 feet of local relief in the compartment. There is insufficient data to determine the glacial drift thickness. The Silurian Manitoulin Dolomite and Ordovician Queenston Shale, Big Hill Dolomite and Stonington Formation subcrop below the glacial drift. Some of these rocks could be used for stone. Sandpits are located throughout this area and gravel potential appears to be limited. There is no commercial oil and gas production in the UP.

Vehicle Access:

There are 3 main ways to access the compartment. East side access is from the Old Seney Road. The north and west sides are accessible through private.

Survey Needs:

Surveying in this area is difficult because of the lack of corners to work from. Complete survey would be cost prohibitive.

Recreational Facilities and Opportunities:

The Old Seney Road is a snowmobile trail in the winter time. Other main recreational uses would be hunters and people fishing the Fox River. Recreational vehicle access is restricted from the north and could easily be restricted from the west.

Fire Protection:

Compartment does contain lots of acres of pine which can be a fire hazard, but the area is wet or snow-covered a large amount of the year.

Additional Compartment Information:

The following reports from the Inventory are attached:

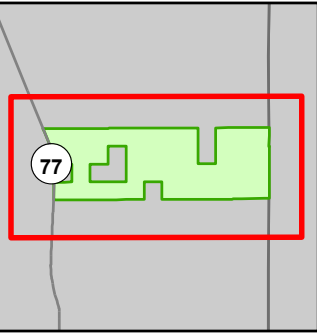
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

The following information is displayed, where pertinent, on the attached compartment maps:

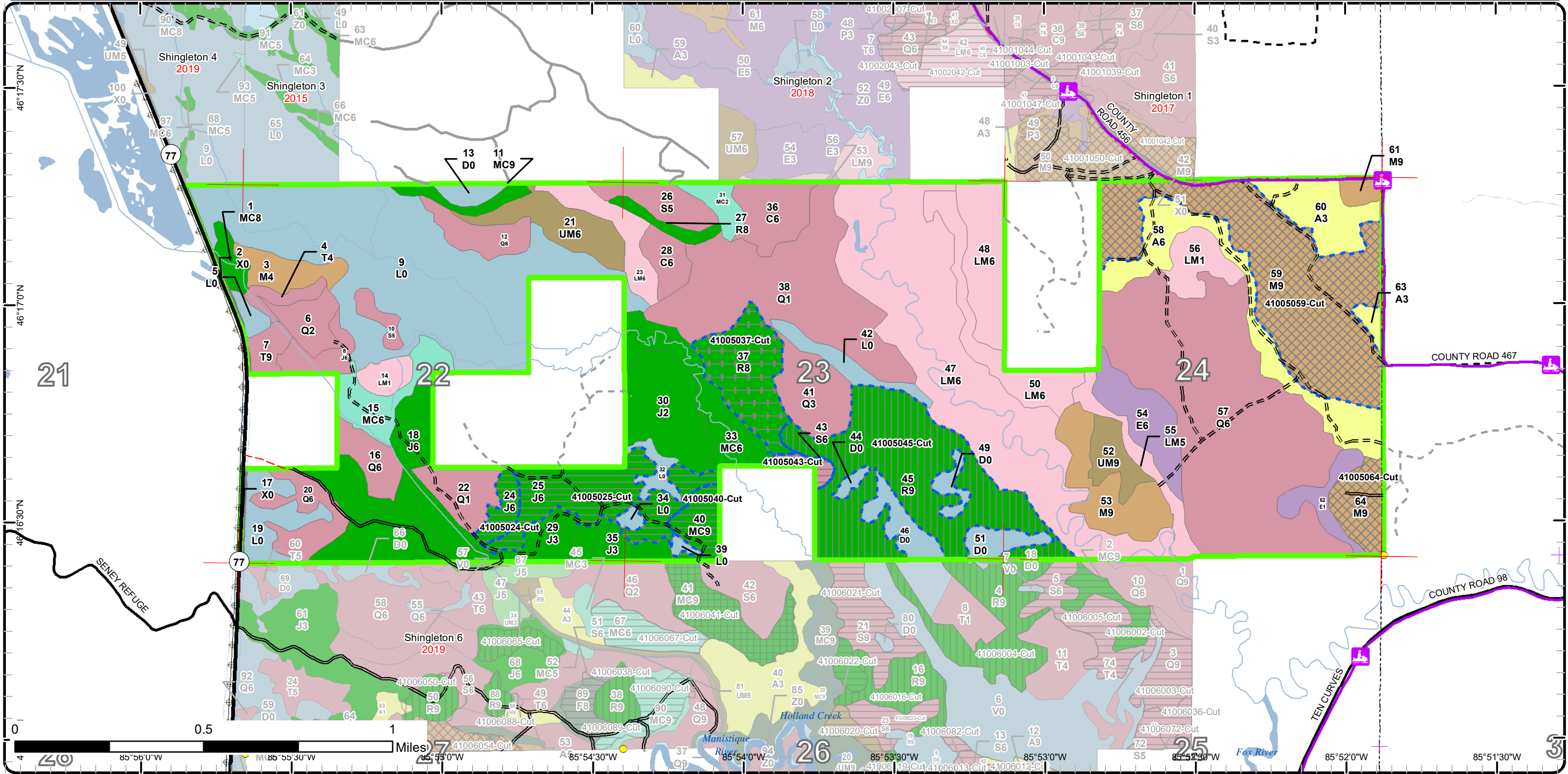
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 5
 T45N,R13W, Sec: 22-24
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Fox River Complex
 YOE: 2023
 Acres: 1672 GIS Calculated
 Examiner: Scott Kentner
 Map Revised: 1/28/2022
 Map Phase: Post Review

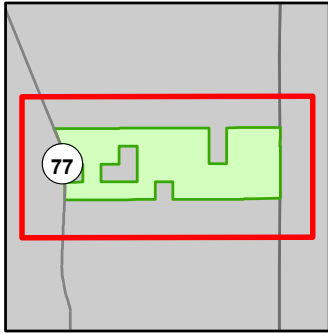


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 622 - Lowland Shrub

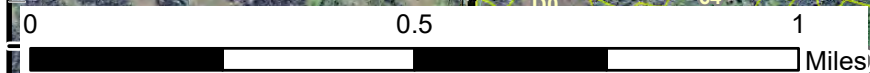
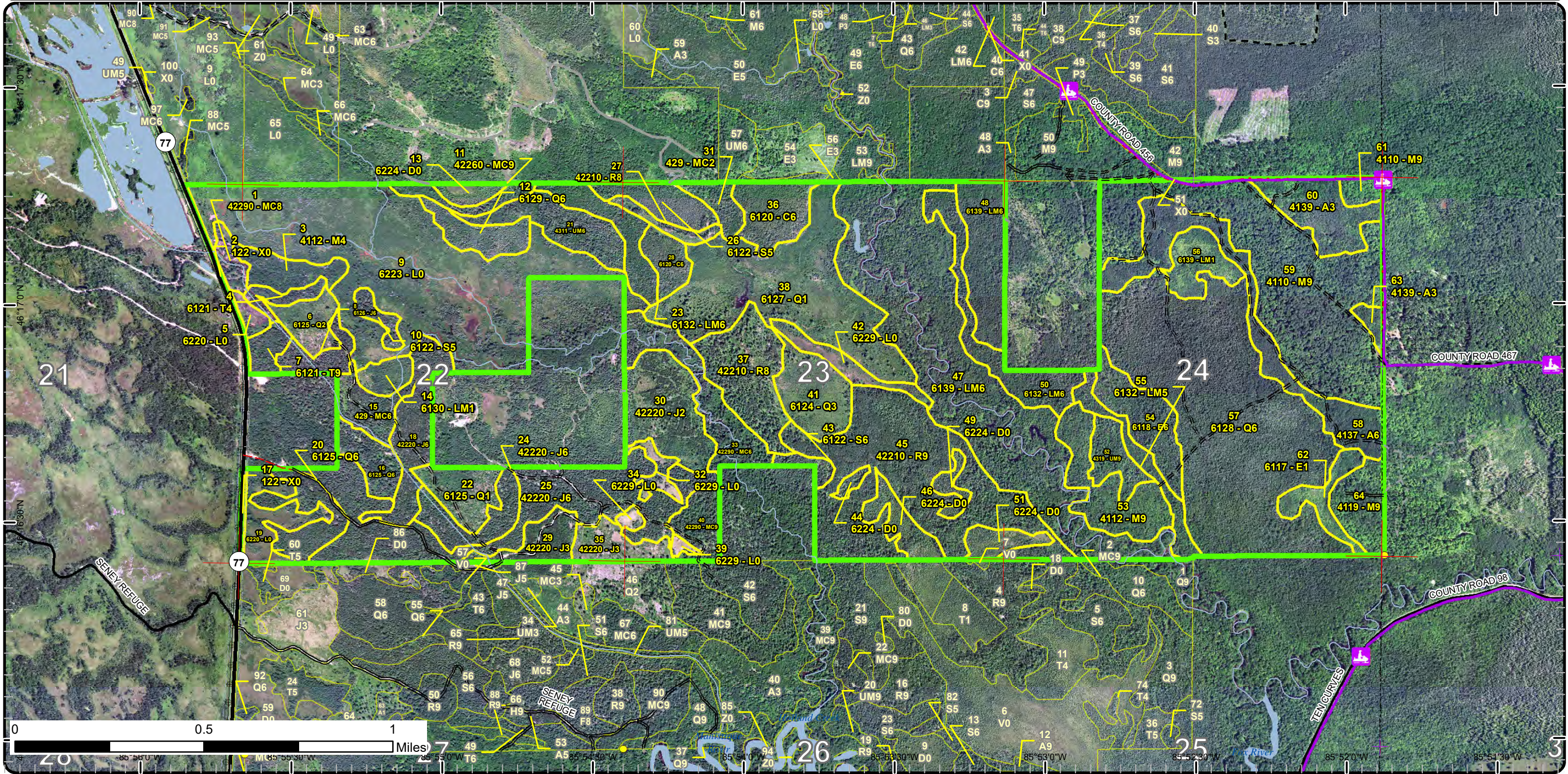


Stand Boundary Map

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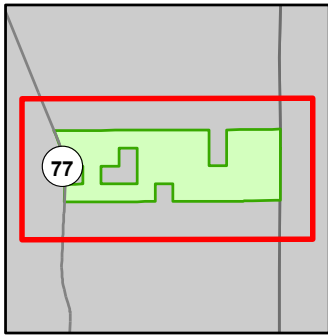


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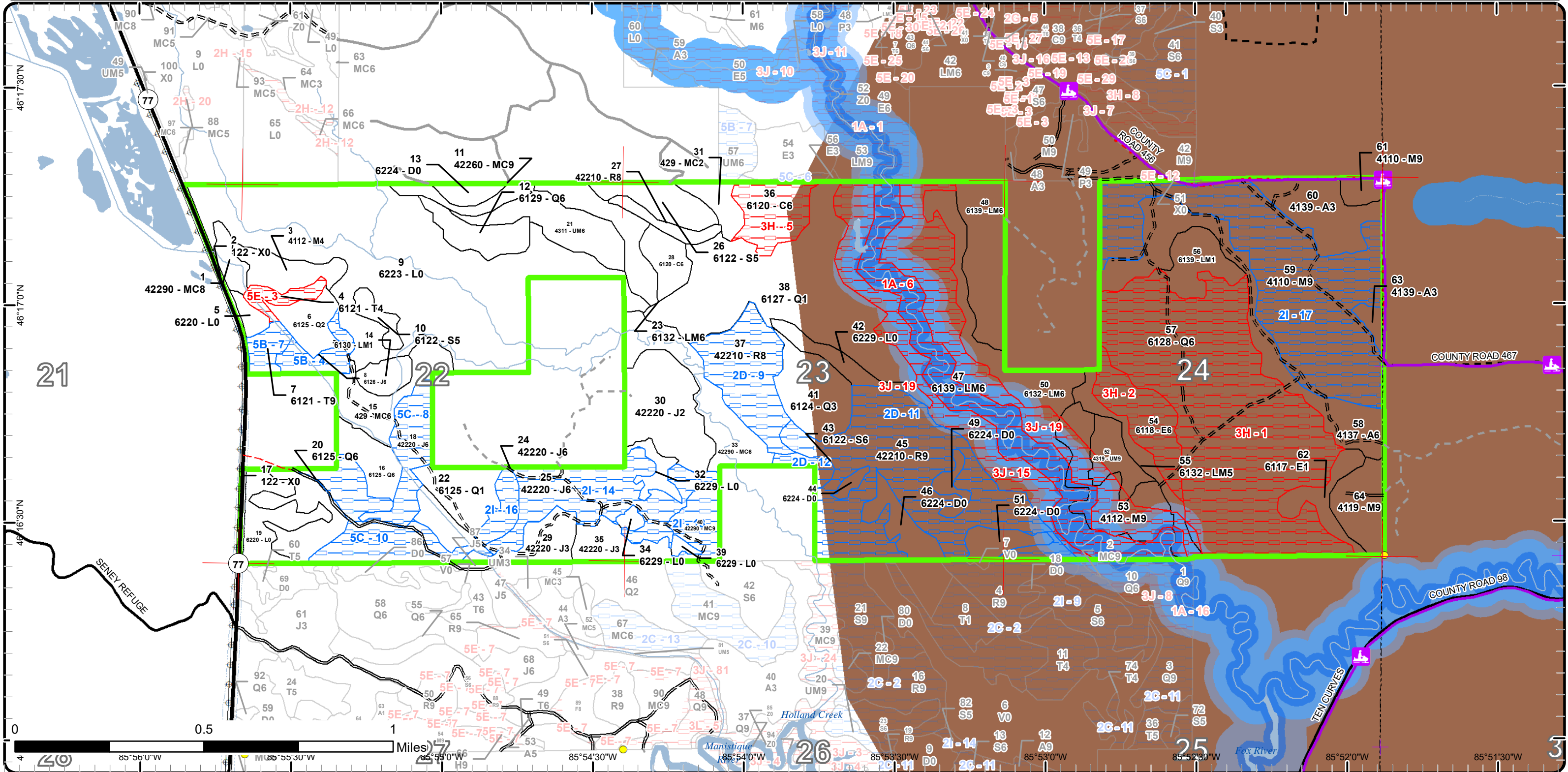


Special Conservation Areas

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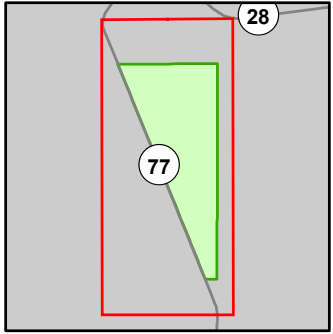


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- Perennial River
- Lakes and Rivers
- ⊕ Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
 - 1A: Federal/State/Local Law
 - 3J: Water quality / BMPs (stream, river, or lake)
 - 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- High Priority Trout Stream Buffer
- Deer Winter Range
- 2D: Portable Bridge Needed (Dept. bridge will be adequate)
- 2I: Survey needed
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality



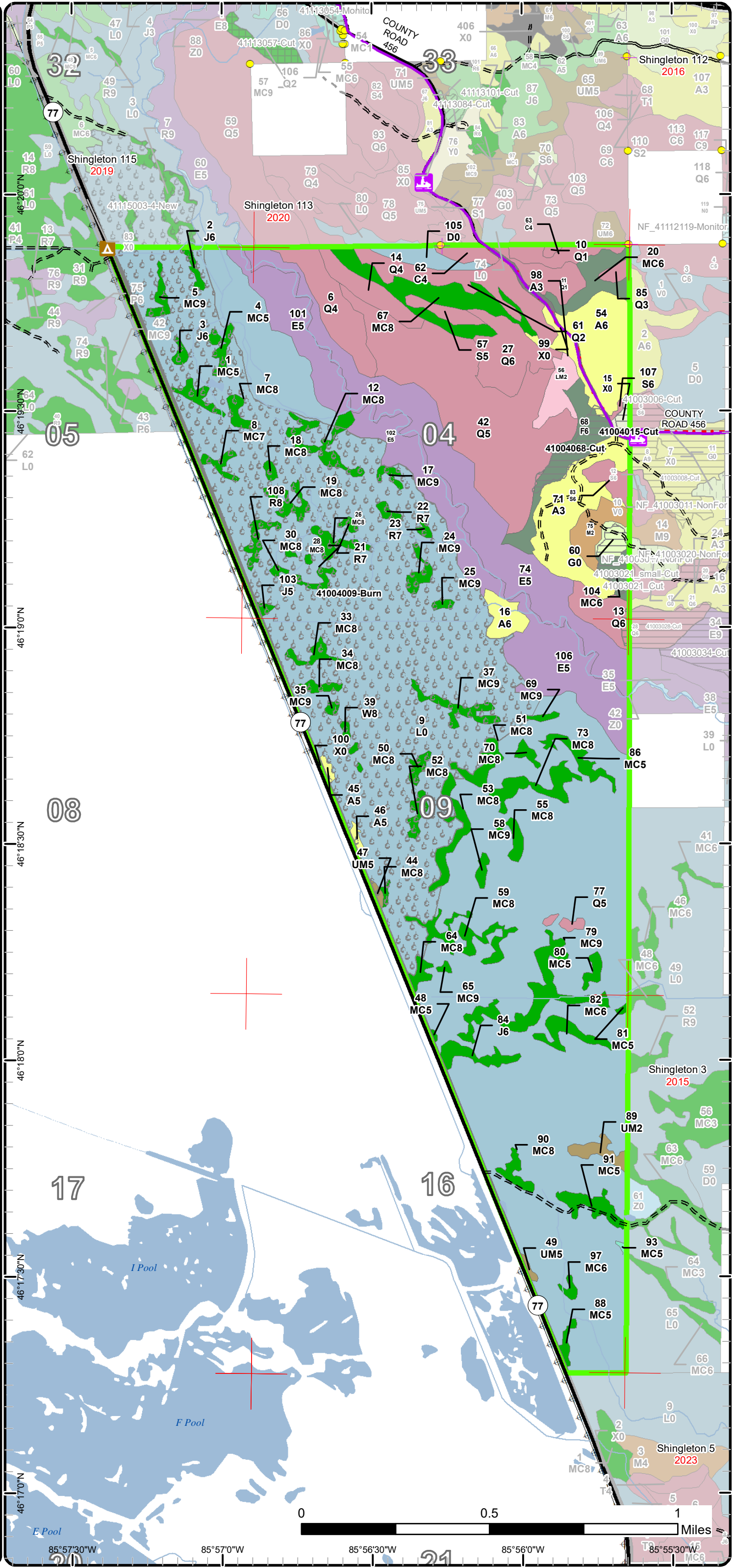
Cover Type & Treatments Map

*Compartment: 4
 T45N,R13W, Sec: 4, 5, 9, 16
 County: Schoolcraft
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 Mgmt Area: Fox River Complex
 YOE: 2019
 Map Revised: 2/8/2022
 Map Phase: Post Review



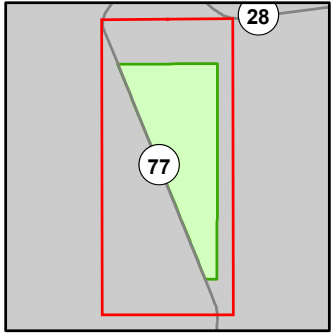
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- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 790 - Other Bare/Sparsely Vegetated

*Note: Treatments shown occur outside of compartment 41005 boundary. The mapped area covers compartments that are not currently under review for 2023 and applies to TREATMENTS only.



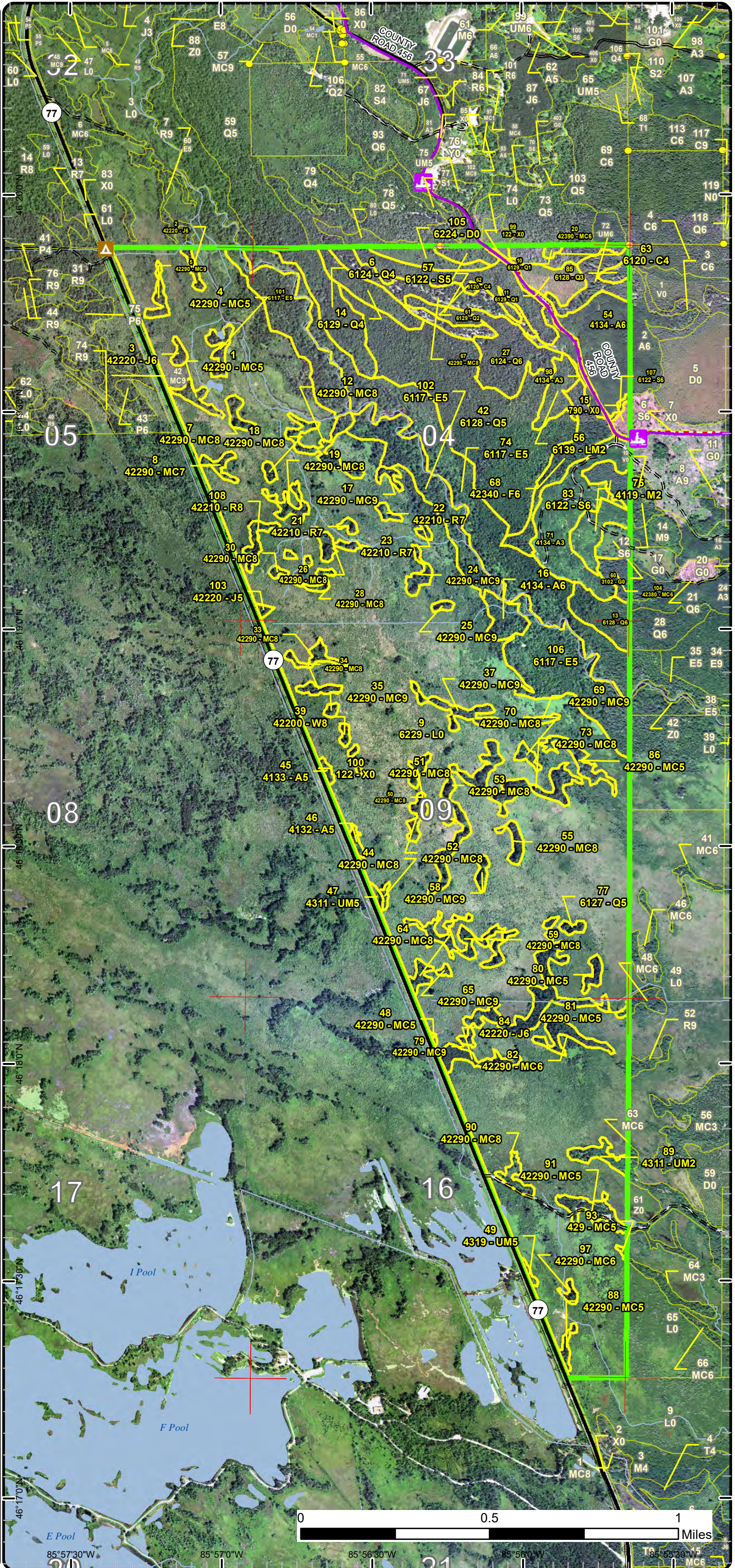
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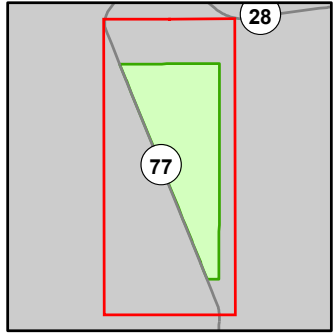
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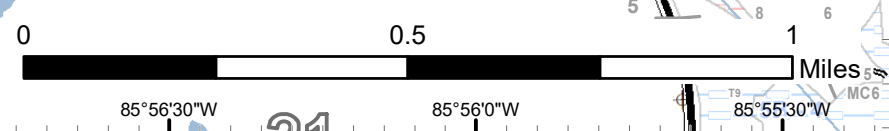
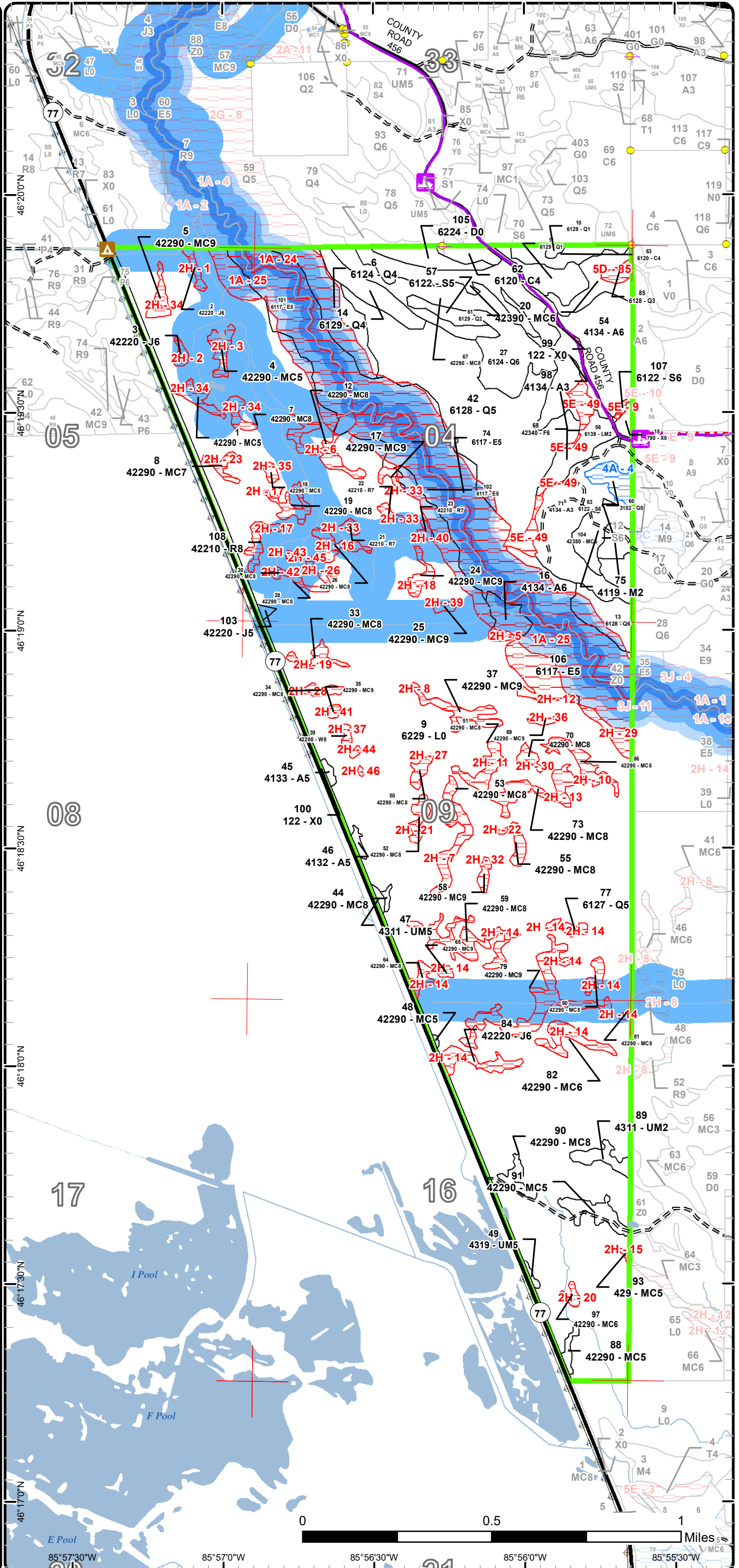
Special Conservation Areas

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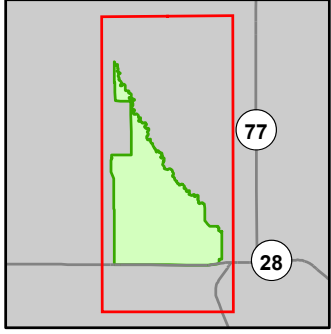
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- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Campground
- ⊕ Powerline
- Compartment Boundary
- Available w/ Constraints
- 4A: No Markets Available for these Forest Products
- Unavailable
- 1A: Federal/State/Local Law
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer

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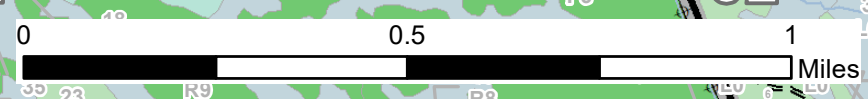
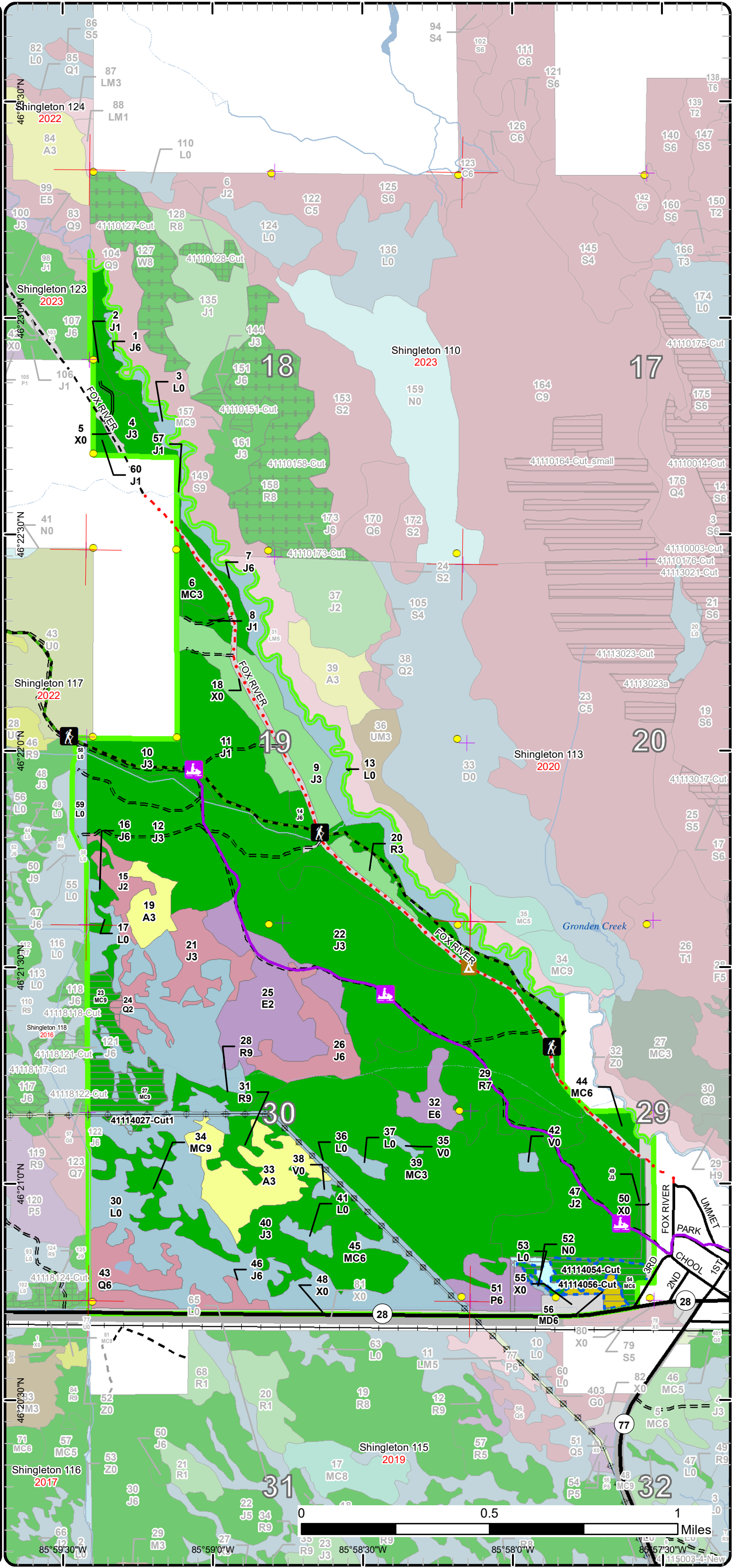
Cover Type & Treatments Map

*Compartment: 114
 T46N, R13W, Sec. 18, 19, 29, 30
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Bullock Ranch
 YOE: 2024
 Map Revised: 2/9/2022
 Map Phase: Post Review



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- Hiking Trails
- Snowmobile Trails
- Designated Hiking Trails
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- Designated Snowmobile Trails
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- Powerline
- Compartment Boundary
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- Clearcut (w/Reserves)
- Opening Maintenance
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
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- 110 - Low Intensity Urban
- 622 - Lowland Shrub
- 623 - Emergent Wetland

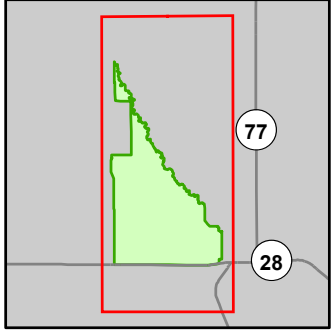
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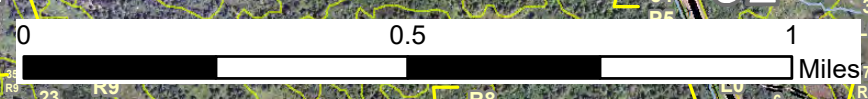
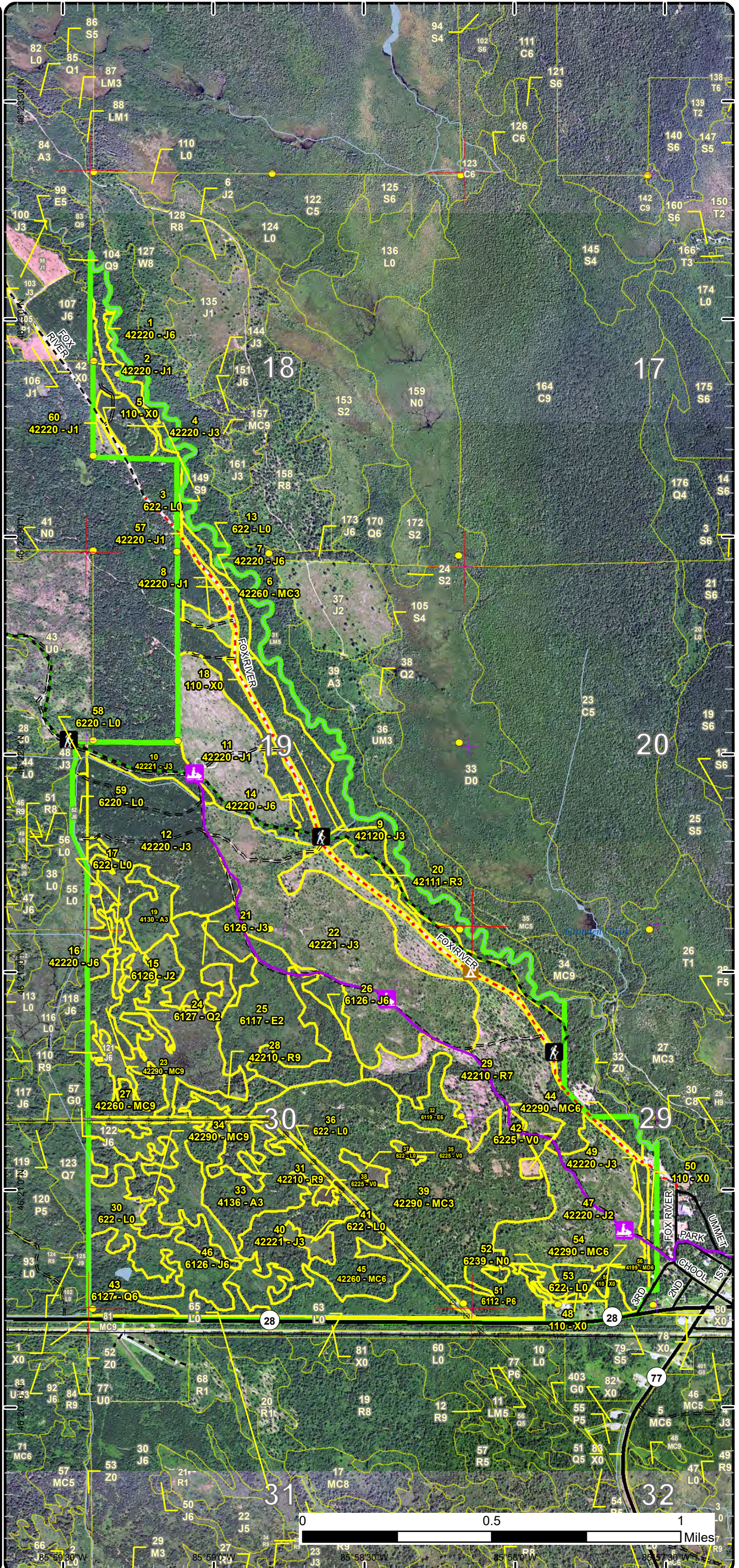
Stand Boundary Map

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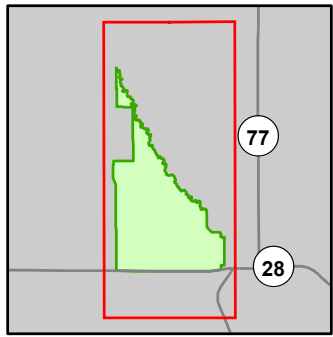
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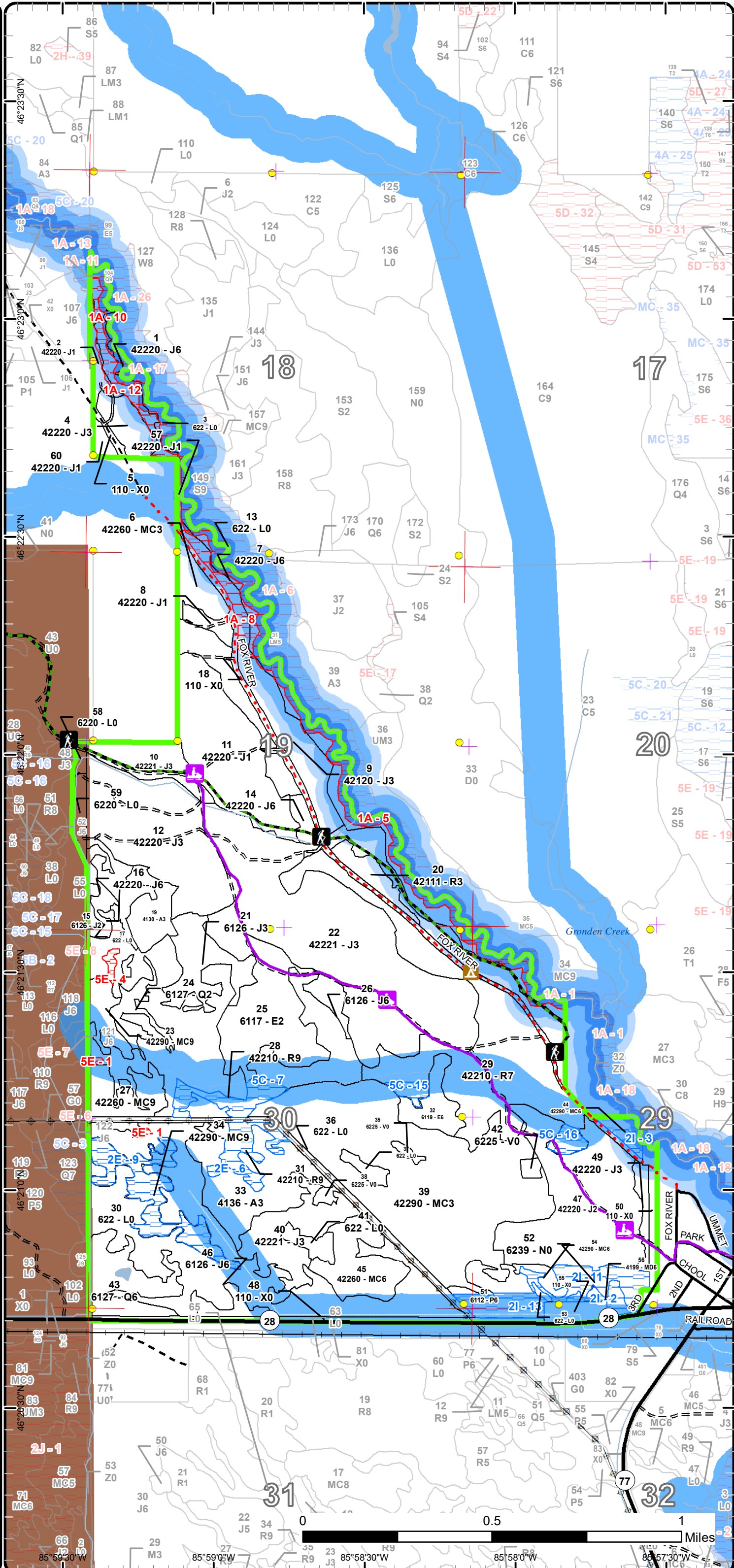
Special Conservation Areas

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 Mgmt Area: Bullock Ranch
 YOE: 2024
 Map Revised: 2/9/2022
 Map Phase: Post Review

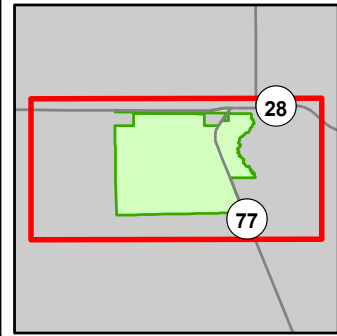


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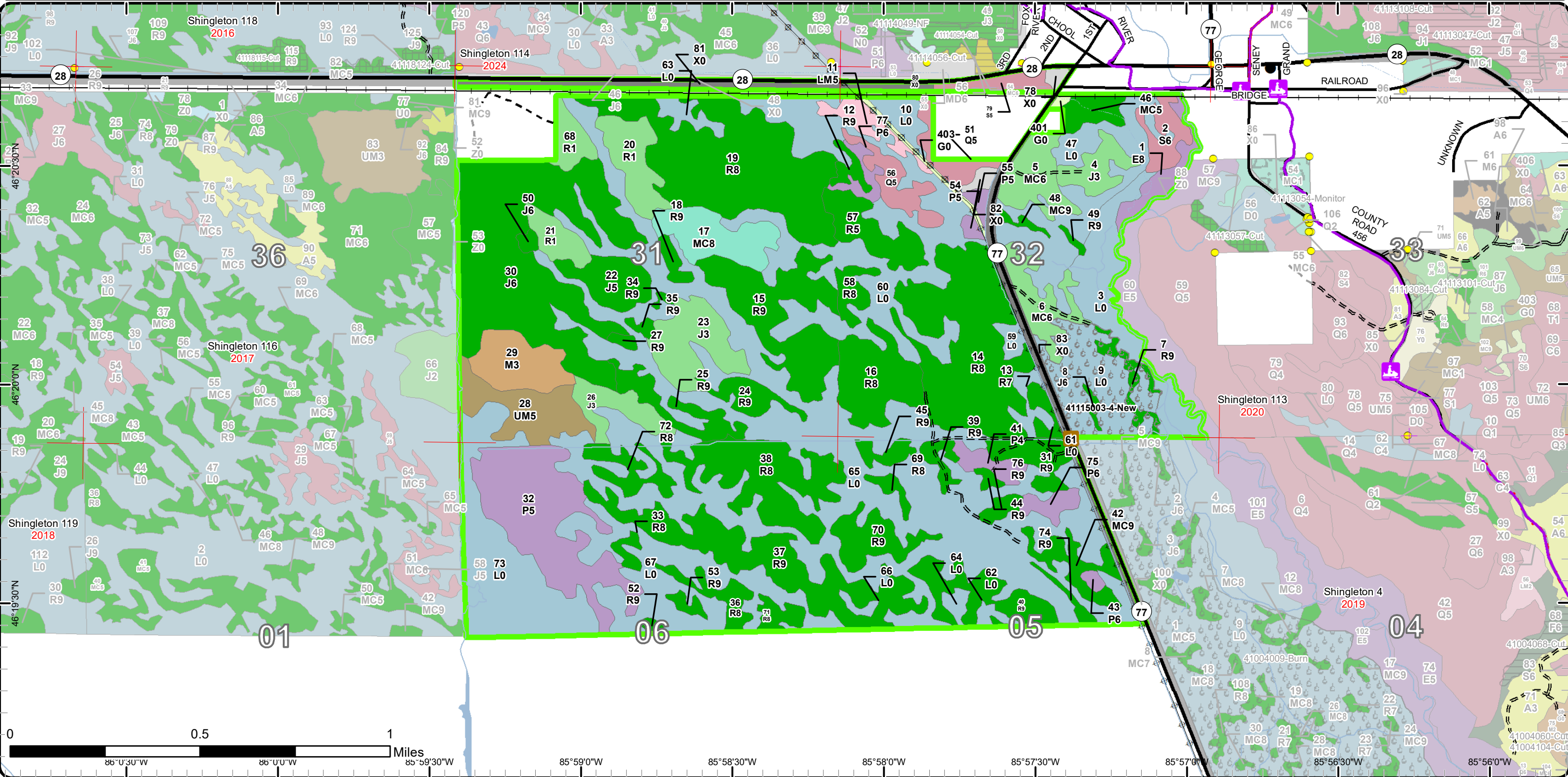


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 T46N, R13W, Sec: 31, 32
 T45N, R13W, Sec: 6, 5
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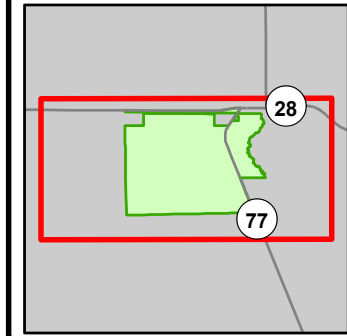
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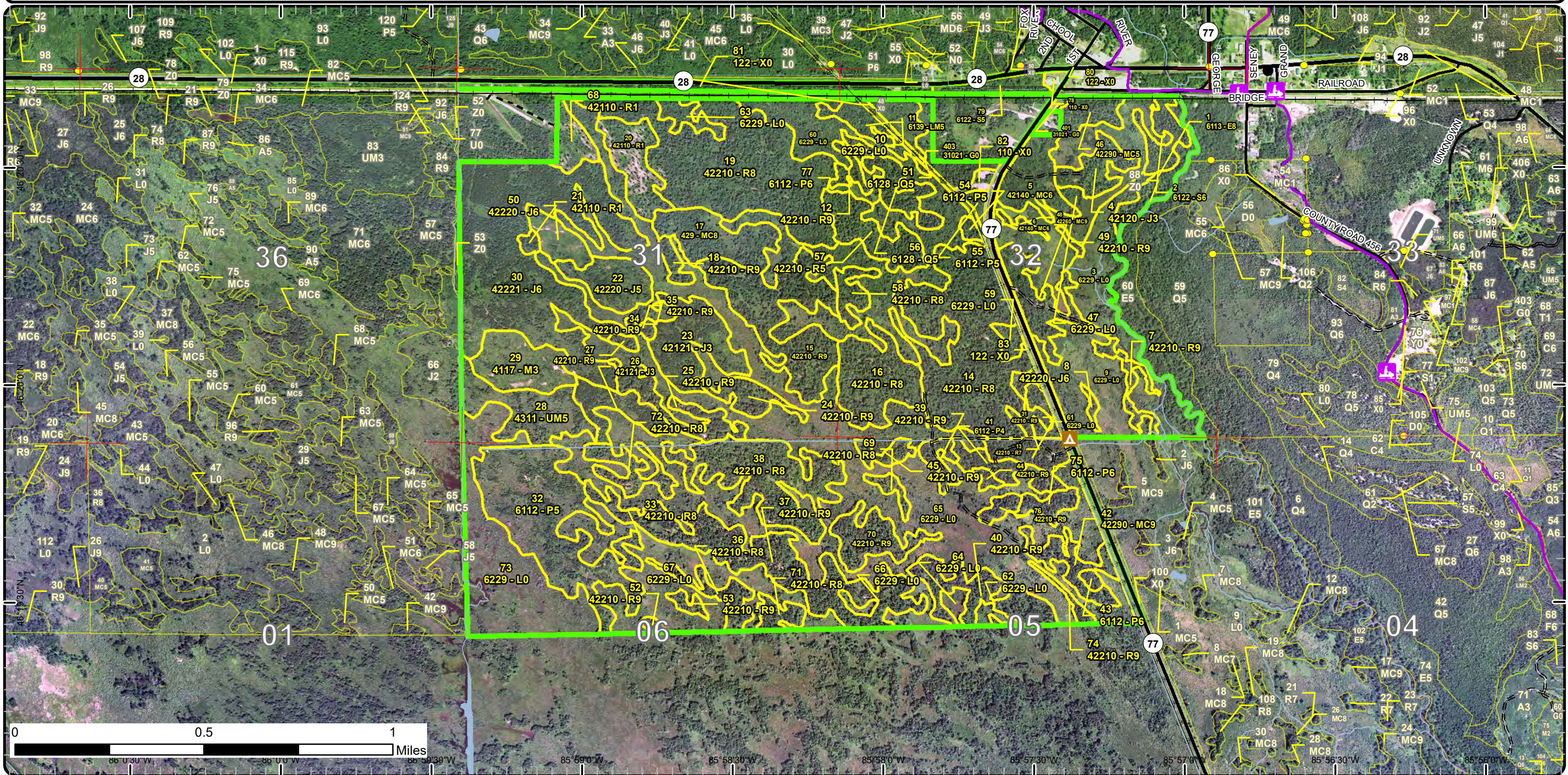
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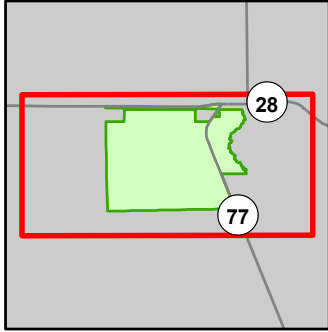
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 - 122 - Roads/Parking Lot
 - 310 - Herbaceous Openland
 - 622 - Lowland Shrub
 - 411 - Northern Hardwood
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 429 - Mixed Upland Conifers
 - 430 - Upland Mixed Forest



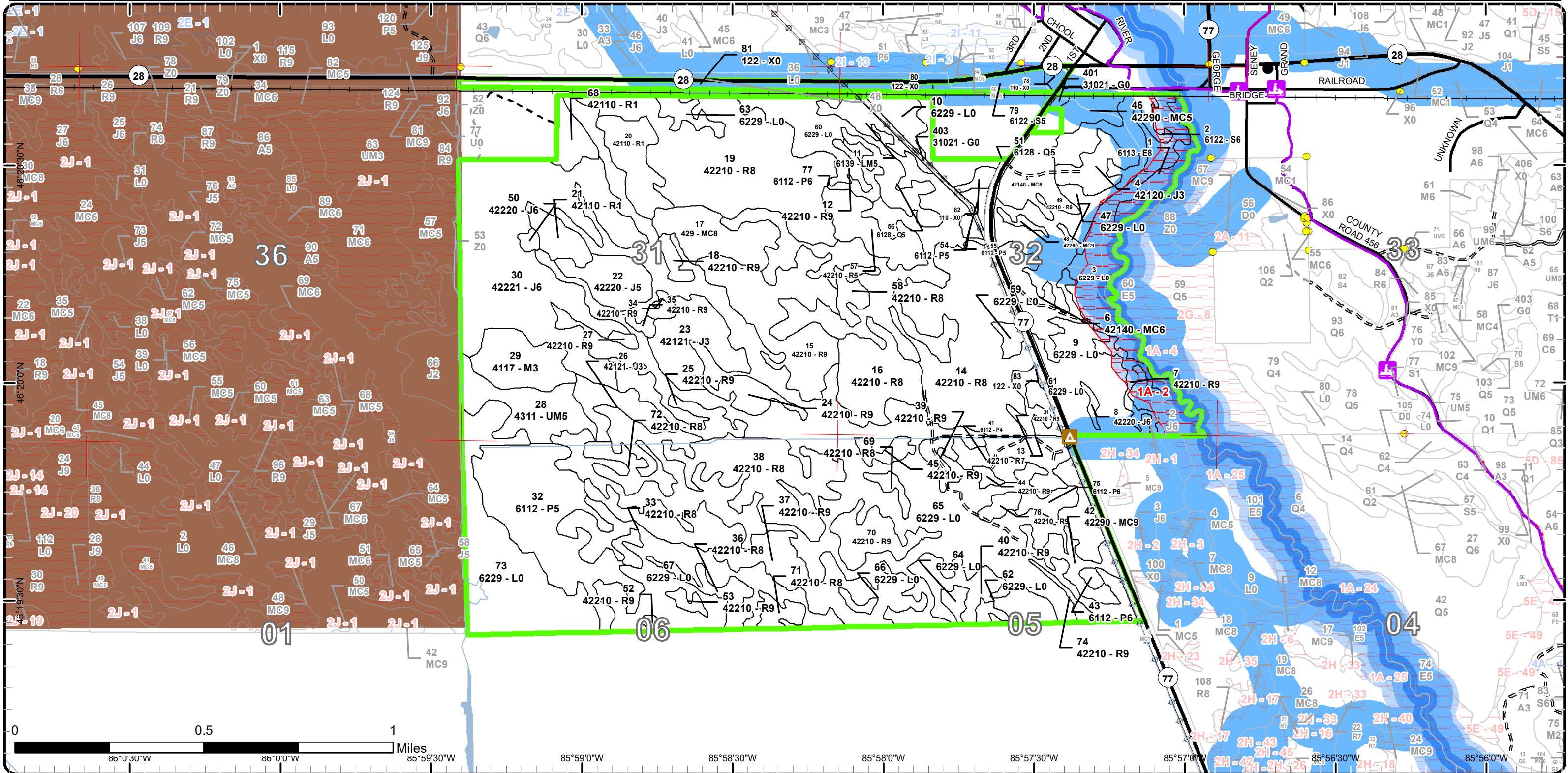
Special Conservation Areas

*Compartment: 115
 T46N, R13W, Sec: 31, 32
 T45N, R13W, Sec: 6, 5
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Bullock Ranch
 Examiner: Scott Kentner
 Map Revised: 2/9/2022 Map
 Phase: Post Review

*Note: Treatments shown occur outside of compartment 41005 boundary. The mapped area covers compartments that are not currently under review for 2023 and applies to TREATMENTS only.



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Active Railroads
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Campground
- City
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Unavailable
- 1A: Federal/State/Local Law
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer
- Wildlife Management Areas



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	0	73	0	0	0	0	0	0	0	0	0	0	0	0	0	73
Cedar	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	30
Jack Pine	0	0	13	34	13	16	0	99	0	10	0	0	0	0	0	0	0	0	185
Lowland Conifers	0	0	28	115	0	0	0	31	14	0	0	174	0	0	0	0	0	0	362
Lowland Deciduous	0	0	0	12	0	0	0	0	0	0	23	0	0	0	0	0	0	0	35
Lowland Mixed Forest	0	0	7	15	0	17	0	56	0	0	13	152	0	0	0	0	0	0	260
Lowland Shrub	209	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	209
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	20	4	0	0	0	0	0	0	0	0	24
Natural Mixed Pines	0	0	0	0	0	0	0	7	28	6	13	0	0	0	0	0	0	0	54
Northern Hardwood	0	0	0	0	0	0	0	0	0	13	29	0	0	0	0	0	0	141	183
Red Pine	0	0	0	0	0	0	0	6	0	0	0	104	34	0	0	0	0	0	144
Tamarack	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	13
Treed Bog	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Upland Conifers	0	0	0	8	0	0	0	0	20	0	0	0	0	0	0	0	0	0	28
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	35
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Total	247	0	48	184	86	33	0	199	82	46	78	460	34	0	0	0	0	176	1673



Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 5

Total Compartment Acres: 1,672

Commercial Harvest - 17
 Harvests with Site Condition - 327
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Jack Pine	53	0	0	0	0	0	0	0	0	53
Lowland Spruce/Fir	4	0	0	0	0	0	0	0	0	4
Natural Mixed Pines	13	0	0	0	0	0	0	0	0	13
Northern Hardwood	0	136	0	0	0	0	0	0	0	136
Red Pine	0	0	0	0	104	0	34	0	0	138
Total	70	136	0	0	104	0	34	0	0	344

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	344	0	0	0	0	0	0	0	0	344
Next Step	0	53	13	0	0	13	323	0	0	402
Total	344	53	13	0	0	13	323	0	0	746



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Approved Treatments:

9	41004009-Burn	465.5	6229 - Mixed lowland shrub	Nonstocked		Unspecified	Burn	Lowland	629 - Mixed non-forested wetland		No
<p><u>Prescription</u> The intent of this burn s to reset the alder and willow as well as reduce fuel loading since this area has not been burned in decades. This</p> <p><u>Specs:</u> burn will also restore native habitat. The upland ridges included in the burn should not burn intense enough to kill mature trees. Control lines will mainly be either wet lines or mulched with a marsh master.</p> <p><u>Next Step</u> Monitoring, Prescribed Burn</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Fisheries will need to be consulted if the boundary is within 200' of the Fox River because of the Natural River status.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/15/2021</p>											
24	41005024-Cut	8.0	42220 - Natural Jack Pine	Poletimber Well	48	51-80	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention: Remove all species, leave retention in a pocket.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any species currently on site.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
25	41005025-Cut	45.3	42220 - Natural Jack Pine	Poletimber Well	67	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention: Remove all species leaving retention in a pocket.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any species on site.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
37	41005037-Cut	34.1	42210 - Natural Red Pine	Sawtimber Medium	111	51-80	Harvest	Overstory Removal	4221 - Natural Red Pine	Uneven- Aged	No
<p><u>Prescription</u> Overstory removal: Remove all large trees that compose overstory to allow existing regeneration to become new stand. Protect natural regeneration as much as possible. Leave large diameter trees within boundary line to serve as retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any species on site.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Portable Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
40	41005040-Cut	12.7	42290 - Natural Mixed Pine	Sawtimber Well	96	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention: Remove all species on site down to 2". Leave retention in pocket on the edge of the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Unfurrowed; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Skidder - Site Prep</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
43	41005043-Cut	4.2	6122 - Black Spruce	Poletimber Well	86	1-50	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Clear cut: Remove all species, leave no retention due to small size.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any species.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Portable Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
45	41005045-Cut	103.8	42210 - Natural Red Pine	Sawtimber Well	102	81-110	Harvest	Shelterwood with Retention	4221 - Natural Red Pine	Uneven- Aged	No
<p><u>Prescription</u> Shelterwood with reserves: Leave 30-50 BA of Red pine as seed source. Focus on even spacing among seed trees to give largest coverage of seed dispersion.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any species currently on site.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Portable Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
59	41005059-Cut	118.7	4110 - Sugar Maple Association	Sawtimber Well	96	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Single Tree Selection: Mark stand following the guidance of the "Complete Marker". Focus on creating canopy gaps for existing regen.</p> <p><u>Specs:</u> Residual BA should be 70 - 90. Cutting of the stand should only take place after Oct. 1, and into the winter months.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any species currently on site.</p> <p><u>Regen:</u></p> <p><u>Other</u> add snowmobile trail protection specs.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
64	41005064-Cut	17.4	4119 - Mixed Northern Hardwoods	Sawtimber Well	97	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Single tree Selection: Mark stand following the guidance of the "Complete Marker". Focus on creating canopy gap for existing regen.</p> <p><u>Specs:</u> Residual BA should be between 70- 90. Cutting of the stand should only take place after Oct. 1, and into the winter months.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any species currently on site.</p> <p><u>Regen:</u></p> <p><u>Other</u> add snowmobile trail protection specs.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
49	41114049-NF	4.7	42220 - Natural Jack Pine	Sapling Well	33	Unspecified	NonForestMgt	Brush Cutting	31022 - Warm Season Grass		No
<p><u>Prescription</u> The objective of this treatment is to create an approximate 50-66' fuel break. There are little to no merchantable trees and therefore the work will need to be done with a mastacator.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/15/2021</p>											
9	41115003-4-New	43.7	6229 - Mixed lowland shrub	Nonstocked		Unspecified	Burn	Lowland	6220 - Alder/willow		No
<p><u>Prescription</u> The intent of this burn is to reset the alder and willow as well as reduce fuel loading since this area has not been burned in decades. This burn will also restore native habitat. The upland ridges included in the burn should not burn intense enough to kill mature trees. Control lines will mainly be either wet lines or mulched with a marsh master.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Prescribed Burn</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Fisheries should be consulted regarding the Fox River buffer since its a Natural River if operations fall within the 200' buffer.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/15/2021</p>											



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Treatment
Name

Acres

Stand
CoverType

Size
Density

Stand
Age

BA
Range

Treatment
Type

Treatment
Method

Cover Type
Objective

Age
Structure

Habitat
Cut

Total Treatment
Acreage Proposed: 858.1

Report 4 – Site Conditions

Shingleton Mgt. Unit
Scott Kentner : Examiner

Compartment: 5
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions									
		With Condition				2D	2I	5B	5C	1A	3H	3J	5E		
73	73	0		0	Aspen										
30	10	0		20	Cedar						20				
185	68	117		0	Jack Pine		53	10	53						
361	187	0		174	Lowland Conifers	0					173	1			
35	12	0		23	Lowland Deciduous						23				
260	105	0		155	Lowland Mixed Forest					62		94			
209	209	0		0	Lowland Shrub							0			
24	20	4		0	Lowland Spruce/Fir	4									
54	41	13		0	Natural Mixed Pines		13								
183	44	119		21	Northern Hardwood		119			3		18			
144	6	138		0	Red Pine	138									
13	0	7		6	Tamarack			7							6
33	33	0		0	Treed Bog										
28	28	0		0	Upland Conifers										
35	33	0		2	Upland Mixed Forest							2			
5	5	0		0	Urban										
1,672	873	397		402	Total Forested Acres	142	185	17	53	65	216	115		6	
	52%	24%		24%	Relative Percent										

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	173	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
 Scott Kentner: Examiner

Compartment: 5
 Year of Entry: 2023

2	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5B: Maintain for regeneration purposes	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Obligate deer yard							
6	Unavailable	1A: Federal/State/Local Law	65	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Fox River Natural River 100' zone.							
7	Available	5B: Maintain for regeneration purposes	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Scott Kentner : Examiner

Compartment: 5
Year of Entry: 2023

8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	34	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	104	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	4	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	2I: Survey needed	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Scott Kentner : Examiner

Compartment: 5
Year of Entry: 2023

14	Available	2I: Survey needed	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	2I: Survey needed	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	2I: Survey needed	119	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	70	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments				
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Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	42290 - Natural Mixed Pine	Sawtimber Medium	6.1	82	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		45	Log	10	82	Tag Alder	Low	Variable	Tall Shrub
Quaking Aspen		15	Log	10		Balsam Fir	Low	< 5 feet	Sapling
Black Cherry		10	Pole	8		White Pine	Low	< 5 feet	Sapling
White Pine		30	Log	17		Red Maple	Low	< 5 feet	Sapling

2	122 - Road/Parking Lot	Nonstocked	2.9			No	M-77 and right-of-way
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3	4112 - Maple, Beech, Cherry Association	Poletimber Poor	13.4	82	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry		75	Pole	8	82	Tag Alder	Medium	Variable	Tall Shrub
Red Maple		20	Pole	5					
American Elm		5	Pole	8					

4	6121 - Tamarack	Poletimber Poor	6.2	81	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		15	Pole/Sapling	5		Tag Alder	Medium	< 5 feet	Tall Shrub
Tamarack		55	Pole/Log	8	81	Pin Cherry	Low	< 5 feet	Sapling
Jack Pine		30	Pole	7	81	Jack Pine	Low	< 5 feet	Sapling
						Tamarack	Low	5 - 10 feet	Sapling

5	6220 - Alder/willow	Nonstocked	3.8			No	
Sub-Canopy Species		Density	Avg. Height	Size			
Red Maple		Trace		Sapling			
Tag Alder		High		Tall Shrub			
Balsam Fir		Trace		Sapling			

6	6125 - Lowland Black Spruce, Jack Pine	Sapling Medium	12.0	15	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack		20	Sapling/Pole	4		Tag Alder	Low	< 5 feet	Tall Shrub
Black Spruce		25	Sapling/Pole	4	15				
Balsam Fir		10	Sapling	2					
Quaking Aspen		10	Sapling	4					
Jack Pine		35	Sapling	3	15				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
7	6121 - Tamarack	Sawtimber Well	7.0	82	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		20	Pole	8		Jack Pine	Low	5 - 10 feet	Sapling
White Pine		10	Log	14		Tag Alder	Low	< 5 feet	Tall Shrub
Red Pine		5	Log	14		Black Spruce	Low	5 - 10 feet	Sapling
Tamarack		55	Log	10	82				
Quaking Aspen		10	Pole	8					
8	6126 - Lowland Jack Pine	Poletimber Well	10.0	82	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		70	Pole	8	82	Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce		30	Pole	8					
9	6223 - Inundated Shrub Swamp	Nonstocked	168.6			No			
Sub-Canopy Species		Density	Avg. Height	Size					
Jack Pine		Trace	Unspecified	Pole					
10	6122 - Black Spruce	Poletimber Medium	5.3	71	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack		30	Pole	9		Tamarack	Low	>20 feet	Sapling
Red Pine		5	Log	16		Black Spruce	Low	>20 feet	Sapling
Black Spruce		60	Pole	8	71	Tag Alder	Low	5 - 10 feet	Tall Shrub
Paper Birch		5	Log/Pole	11					
11	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	7.3	62	51-80	N/A	good regeneration of aspen, red pine, white pine with some fir and spruce. Red pine mainly in the more open areas.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		20	Log	10		Red Pine	Low	>20 feet	Sapling
Red Pine		40	Log	14	62	Quaking Aspen	High	10 - 20 feet	Sapling
Quaking Aspen		40	Sapling/Pole	3		White Pine	Medium	5 - 10 feet	Sapling
						Red Maple	Low	10 - 20 feet	Sapling
12	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	13.6	76	1-50	N/A	very wet ground. regeneration came back from cutting but slow b/c of high water table		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack		35	Pole	5	76	Labrador Tea	Low	Variable	Tall Shrub
Northern White Cedar		25	Pole	9	104	Tag Alder	Medium	Variable	Tall Shrub
Black Spruce		30	Pole	5					
Quaking Aspen		5	Pole	6					
White Pine		5	Pole/Sapling	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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13 6224 - Treed Bog Nonstocked 5.4 No

Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	Low		Sapling
Black Spruce	High		Sapling

14 6130 - Fir, Aspen, Maple Sapling Poor 7.2 15 Immature N/A

Regen survey done summer 2015 = Tamarack 587 T/A, Spruce 97 T/A, Jack pine 97 T/A, Aspen 195 T/A. Site passed.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	30	Sapling	2	15
Black Cherry	5	Sapling	2	
Black Spruce	10	Sapling	2	
Red Maple	40	Sapling	2	15
White Pine	5	Pole	8	
Tamarack	10	Sapling/Pole	3	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	< 5 feet	Tall Shrub

15 429 - Mixed Upland Conifers Poletimber Well 19.6 75 81-110 N/A

From inventory data the NE part of the stand may have been cut in 1947.

Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	10	Log	10	
Jack Pine	40	Pole	8	75
Black Spruce	40	Pole	8	75
Quaking Aspen	10	Log	11	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	< 5 feet	Sapling
White Pine	Low	< 5 feet	Sapling
Jack Pine	Low	< 5 feet	Sapling
Balsam Fir	Low	< 5 feet	Sapling
Tag Alder	Low	< 5 feet	Tall Shrub

16 6125 - Lowland Black Spruce, Jack Pine Poletimber Well 12.6 62 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	40	Pole	8	62
Tamarack	7	Log	10	
Red Maple	10	Pole	8	
White Pine	10	Log	12	
Balsam Fir	3	Sapling/Pole	4	
Jack Pine	30	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Blueberry/Bilberry/Cranberry	Medium	Variable	Tall Shrub

17 122 - Road/Parking Lot Nonstocked 1.9 No

m-77 and Right-of-way

18 42220 - Natural Jack Pine Poletimber Well 19.9 62 81-110 N/A

treated in 1960

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	98	Pole	8	62
Red Pine	2	XLog	20	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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19 6220 - Alder/willow Nonstocked 17.0 No

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low		Pole
Tamarack	Low		Pole
Black Spruce	Low		Pole

20 6125 - Lowland Black Spruce, Jack Pine Poletimber Well 18.3 67 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	35	Pole	7		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Tamarack	7	Pole/Sapling	6		Jack Pine	Low	5 - 10 feet	Sapling
Jack Pine	45	Pole	7	67	Black Spruce	Low	5 - 10 feet	Sapling
Quaking Aspen	13	Pole	9					

21 4311 - Pine, Aspen Mix Poletimber Well 22.8 66 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	45	Pole	9	66	Red Maple	Low	Variable	Sapling
White Pine	20	Log	10		Balsam Fir	Low	Variable	Sapling
Black Spruce	20	Pole	8					
Balsam Fir	5	Pole	5					
Red Pine	10	Pole	9					

22 6125 - Lowland Black Spruce, Jack Pine Sapling Poor 16.4 15 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	45	Sapling	2	15	Blueberry/Bilberry/Cranberry	Low	Variable	Tall Shrub
Tamarack	20	Sapling	3		Labrador Tea	Low	Variable	Tall Shrub
Quaking Aspen	5	Sapling	1					
Red Maple	10	Sapling	1					
Jack Pine	20	Sapling	3					

23 6132 - Mixed Lowland Forest with Cedar Poletimber Well 17.2 42 1-50 N/A nice healthy regeneration

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole/Sapling	5		Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Fir	15	Sapling/Pole	4					
Black Spruce	15	Pole/Sapling	5					
Red Maple	45	Pole	5	42				
Northern White Cedar	20	Sapling/Pole	4	42				

24 42220 - Natural Jack Pine Poletimber Well 16.0 48 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	70	Pole	8	48	Tamarack	Low	< 5 feet	Sapling
Black Spruce	30	Pole	7		Jack Pine	Medium	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
25	42220 - Natural Jack Pine	Poletimber Well	78.7	67	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack		5	Pole	7		Tag Alder	Low	< 5 feet	Tall Shrub
Red Pine		15	Log/Pole	12		Quaking Aspen	Low	5 - 10 feet	Sapling
Jack Pine		75	Pole	9	67				
Black Spruce		5	Pole	8					
26	6122 - Black Spruce	Poletimber Medium	14.5	76	1-50	N/A	edges of stand are growing spruce but there are interior areas that are more treed bog like.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		5	Pole	8		Blueberry/Bilberry/Cranberry	Low	Variable	Tall Shrub
Black Spruce		95	Pole/Sapling	6	76	Labrador Tea	Low	Variable	Tall Shrub
						Tag Alder	Low	Variable	Tall Shrub
27	42210 - Natural Red Pine	Sawtimber Medium	5.9	66	1-50	N/A	regen looks really good.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		95	Log	12	66	Red Pine	Full	10 - 20 feet	Sapling
White Pine		5	Log	12		Black Spruce	Medium	10 - 20 feet	Sapling
28	6120 - Lowland Cedar	Poletimber Well	10.3	109	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		5	Pole/Sapling	7		Tag Alder	Low	< 5 feet	Tall Shrub
Northern White Cedar		75	Pole	6	109	Balsam Fir	Low	5 - 10 feet	Sapling
Tamarack		5	Pole	7	109				
Paper Birch		15	Pole/Sapling	7					
29	42220 - Natural Jack Pine	Sapling Well	13.3	31	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
White Pine		3	Sapling	3					
Jack Pine		85	Sapling	3	31				
Black Spruce		5	Sapling	3					
Quaking Aspen		5	Sapling	4					
Pin Cherry		2	Sapling	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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30 42220 - Natural Jack Pine Sapling Medium 33.7 25 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	2	Sapling	4		Blueberry/Bilberry/Cranberry	Low	Variable	Tall Shrub
Jack Pine	84	Sapling	4	25				
Tamarack	2	Pole	5					
Red Pine	2	Log/XLog	16					
Bigtooth Aspen	2	Sapling	4					
Red Pine	2	Sapling	2					
Red Maple	2	Sapling	3					
White Pine	2	XLog/Log	20					
Black Cherry	2	Sapling	3					

31 429 - Mixed Upland Conifers Sapling Medium 8.1 28 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	30	Sapling	2		Tag Alder	Low	Variable	Tall Shrub
Red Pine	10	Log	14	86	Red Pine	Low	Variable	Sapling
Jack Pine	45	Sapling	4	28	Black Spruce	Low	Variable	Sapling
Quaking Aspen	15	Sapling	2					

32 6229 - Mixed lowland shrub Nonstocked 5.9 No

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low		Pole
Labrador Tea	Full		Tall Shrub

33 42290 - Natural Mixed Pine Poletimber Well 27.8 76 81-110 N/A buffer for the Holland Creek

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	10	Pole	9		Tag Alder	Low	Variable	Tall Shrub
White Pine	5	Log	14					
Tamarack	10	Pole	9					
Balsam Fir	10	Pole	7					
Red Pine	20	Log	10					
Black Spruce	5	Pole/Sap/Log	7					
Jack Pine	40	Pole	5	76				

34 6229 - Mixed lowland shrub Nonstocked 2.0 No

Sub-Canopy Species	Density	Avg. Height	Size
Leatherleaf	Low		Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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35	42220 - Natural Jack Pine	Sapling Well	13.0	11	1-50	N/A	Stand cut winter of 2011. Passed regen check fall 2019. Stand has lots of aspen and cherry but mostly Jack pine.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	70	Sapling	1	11	Black Spruce	Low	< 5 feet	Sapling
Red Maple	10	Sapling	3	15	Tag Alder	Low	< 5 feet	Tall Shrub
White Pine	5	Log	14					
Quaking Aspen	5	Sapling	4					
Red Pine	10	Log/Pole	12	87				

36	6120 - Lowland Cedar	Poletimber Well	19.7	109	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	15	Pole/Sapling	7	
Black Spruce	5	Pole	6	
Balsam Fir	5	Pole	8	
Northern White Cedar	75	Pole	7	109

37	42210 - Natural Red Pine	Sawtimber Medium	34.2	111	51-80	N/A	the west side of the stand where the BA is higher should be treated again to allow for better regeneration. part of one cut in 94-99.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	90	Log	14	111	Balsam Fir	Low	Variable	Sapling
White Pine	10	Log	14	111	Jack Pine	Medium	5 - 10 feet	Sapling
					Black Spruce	High	Variable	Sapling
					White Pine	High	10 - 20 feet	Sapling
					Red Maple	Low	Variable	Sapling
					Red Pine	High	10 - 20 feet	Sapling

38	6127 - Lowland Pine	Sapling Poor	90.8	23	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	10	Sapling	1		Blueberry/Bilberry/Cranberry	Low	Variable	Tall Shrub
Balsam Fir	15	Sapling	2	23	Tag Alder	Low	Variable	Tall Shrub
Red Pine	20	Sapling	1					
Red Maple	10	Sapling	1					
White Pine	5	Sapling	1					
Black Spruce	15	Sapling	2	23				
Jack Pine	25	Sapling	2	23				

39	6229 - Mixed lowland shrub	Nonstocked	1.5			No	
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Sub-Canopy Species	Density	Avg. Height	Size
Labrador Tea	Low		Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
40	42290 - Natural Mixed Pine	Sawtimber Well	12.7	96	81-110	N/A																																										
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41	6124 - Lowland Spruce-Fir	Sapling Well	23.7	23	Immature	N/A																																										
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42	6229 - Mixed lowland shrub	Nonstocked	10.3			No																																										
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43	6122 - Black Spruce	Poletimber Well	4.2	86	1-50	N/A	S5 higher water table not allowing for good growth on the trees. falls off the red pine ridge from adjacent stand. aspen and white pine are found along the edges and a couple small knobs in the stand.																																									
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44	6224 - Treed Bog	Nonstocked	2.2		Unspecified	No																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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45	42210 - Natural Red Pine	Sawtimber Well	103.8	102	81-110	N/A	there are scattered black spruce mostly non- merchantable. Red and white pine thick with large diameter.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	5	Pole	8		Labrador Tea	Low	< 5 feet	Tall Shrub
Red Pine	80	Log	16	102	Tag Alder	Low	Variable	Tall Shrub
Quaking Aspen	5	Pole	8		Blueberry/Bilberry/Cranberry	Low	Variable	Tall Shrub
White Pine	10	Log	12					

46	6224 - Treed Bog	Nonstocked	11.8		Unspecified	No	
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Sub-Canopy Species	Density	Avg. Height	Size
Leatherleaf	Low		Tall Shrub
Sedges	High		Non-Wood
Labrador Tea	Low		Tall Shrub
Tag Alder	Low		Tall Shrub

47	6139 - Mixed Lowland Forest	Poletimber Well	151.7	109	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Pole	7		Red Maple	Low	Variable	Sapling
Balsam Poplar	10	Log	10		Balsam Fir	Low	Variable	Sapling
Paper Birch	15	Pole	8		Black Spruce	Low	Variable	Sapling
Northern White Cedar	10	Pole	9		Tag Alder	Low	Variable	Tall Shrub
Red Maple	30	Log	10	109				
Black Spruce	25	Pole/Sap/Log	9					

48	6139 - Mixed Lowland Forest	Poletimber Well	28.9	61	51-80	N/A	Stand is still small diameter and gaining growth slowly. The spp remain the same through out the stand but has more aspen in some places and spruce in others. Ground is very wet and would only be possible with a winter cut.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	25	Pole	6		Black Spruce	Low	Variable	Sapling
Balsam Fir	20	Pole	6	61	Balsam Fir	Low	Variable	Sapling
Black Spruce	25	Pole	6	61				
Paper Birch	20	Pole	6					
Tamarack	10	Pole	8					

49	6224 - Treed Bog	Nonstocked	4.9			No	
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Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium		Sapling
Sedges	High		Non-Wood
Labrador Tea	Medium		Tall Shrub
Tag Alder	Low		Tall Shrub
Black Spruce	Medium		Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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50 6132 - Mixed Lowland Forest with Cedar Poletimber Well 26.9 61 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	10	Pole	7		Tag Alder	Low	Variable	Tall Shrub
Quaking Aspen	10	Pole	7					
Black Ash	10	Pole/Sapling	6					
Balsam Fir	20	Pole	7					
Paper Birch	20	Pole	7	61				
Northern White Cedar	30	Pole	9	61				

51 6224 - Treed Bog Nonstocked 8.3 No

Sub-Canopy Species	Density	Avg. Height	Size
Canada Blueberry	Low		Tall Shrub
Sedges	High		Non-Wood
Tag Alder	Low		Tall Shrub
Balsam Fir	Low		Seeding
Black Spruce	Medium		Seeding

52 4319 - Mixed Upland Forest Sawtimber Well 12.1 97 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	45	Log	10	97	Red Maple	Low	Variable	Sapling
Northern White Cedar	5	Pole	9		Balsam Fir	Low	Variable	Sapling
Paper Birch	5	Pole	9					
White Pine	5	XLog	25					
Balsam Fir	10	Pole	6					
Hemlock	20	XLog	20					
Black Spruce	10	Pole	8					

53 4112 - Maple, Beech, Cherry Association Sawtimber Well 29.0 97 81-110 N/A 100' set back from the Fox River

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	70	Log	10	97	Balsam Fir	Low	< 5 feet	Sapling
Balsam Fir	15	Pole	7					
Sugar Maple	10	Log	12					
White Pine	2	XLog	25					
Black Spruce	3	Log	14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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54 6118 - Lowland Deciduous with Cedar Poletimber Well 23.3 94 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	35	Pole	8	94	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Red Maple	25	Pole	7		Balsam Fir	Full	Variable	Sapling
Hemlock	2	Log	16		Red Maple	Low	Variable	Sapling
Tamarack	3	Log	12					
Balsam Poplar	25	Log	10					
Black Ash	10	Pole	6					

55 6132 - Mixed Lowland Forest with Cedar Poletimber Medium 13.2 94 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	10	Pole	8		Tag Alder	Medium	Variable	Tall Shrub
Northern White Cedar	25	Pole	8					
Red Maple	5	Sapling	4					
Black Ash	40	Pole	5	94				
Balsam Fir	20	Pole/Sapling	7					

56 6139 - Mixed Lowland Forest Sapling Poor 15.2 20 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Sapling	2		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	2	Sapling	1					
Balsam Fir	43	Sapling	1	20				
Quaking Aspen	10	Sapling	2					
Black Ash	20	Sapling	2					
Red Maple	5	Sapling	2					
Black Spruce	10	Sapling	2					

57 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 174.1 106 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Log	14		Tag Alder	Low	< 5 feet	Tall Shrub
Northern White Cedar	45	Pole	8	106	Northern White Cedar	Low	Variable	Sapling
Black Spruce	30	Log	10		Balsam Fir	Low	< 5 feet	Sapling
Paper Birch	15	Pole	9		Quaking Aspen	Low	Variable	Sapling
Tamarack	5	Log	14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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58 4137 - Aspen, Birch Poletimber Well 44.4 38 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	5	Pole/Sapling	5		Balsam Fir	Low	10 - 20 feet	Sapling
Quaking Aspen	40	Pole	6	38				
Balsam Fir	15	Sapling/Pole	4					
Bigtooth Aspen	15	Pole	6					
Yellow Birch	10	Sapling	4					
Red Maple	5	Pole/Sapling	5					
Paper Birch	10	Pole/Sapling	5					

59 4110 - Sugar Maple Association Sawtimber Well 118.7 96 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	3	Log	12		Green Ash	Medium	5 - 10 feet	Sapling
White Ash	15	Pole	8		Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Basswood	20	Log	10		Bigtooth Aspen	Low	5 - 10 feet	Sapling
Sugar Maple	50	Log	10	96	Beech	Low	< 5 feet	Sapling
Black Cherry	2	Pole	9					
Bigtooth Aspen	10	Log	12	96				

60 4139 - Aspen, Mixed Deciduous Sapling Well 24.9 38 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	30	Sapling	3	38
White Ash	10	Sapling	3	
Black Cherry	10	Sapling	1	
Red Maple	30	Sapling	3	
Bigtooth Aspen	10	Sapling	1	
Paper Birch	10	Sapling	3	

61 4110 - Sugar Maple Association Sawtimber Well 5.0 66 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	20	Log	10		Beech	Low	< 5 feet	Sapling
Bigtooth Aspen	10	Log	12	96	Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Sugar Maple	50	Pole/Log	8	66	Basswood	Low	5 - 10 feet	Sapling
Black Cherry	2	Pole	9					
Yellow Birch	3	Log	12					
White Ash	15	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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62 6117 - Lowland Deciduous, Mixed Coniferous Sapling Poor 11.7 24 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	25	Sapling	1	24
Quaking Aspen	12	Sapling	1	
Black Ash	25	Sapling	1	
Paper Birch	12	Sapling	1	
Northern White Cedar	2	Sapling	1	
Red Maple	12	Sapling	2	
Black Spruce	12	Sapling	1	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	Variable	Tall Shrub

63 4139 - Aspen, Mixed Deciduous Sapling Well 3.6 38 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Pole/Sapling	5	
White Ash	10	Sapling	4	
Black Cherry	10	Sapling	3	
Quaking Aspen	30	Sapling	4	38
Red Maple	30	Sapling	4	
Bigtooth Aspen	10	Sapling/Pole	3	

64 4119 - Mixed Northern Hardwoods Sawtimber Well 17.4 97 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Basswood	20	Log	12	
Sugar Maple	40	Log	10	97
White Ash	10	Pole	8	
Red Maple	25	Log	11	
Yellow Birch	5	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Leatherwood	Low	5 - 10 feet	Tall Shrub
Red Maple	Low	10 - 20 feet	Sapling